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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/570,230	08/17/2006	Thorsten Bechert	WFG-39710	7580
PEARNE & GO	7590 06/21/201 ORDON LLP	0	EXAM	INER
	C 9TH STREET VU, JAKE MINH			E MINH
	ОН 44114-3108		ART UNIT PAPER NUMBER	
			1618	
			MAIL DATE	DELIVERY MODE
			06/21/2010	PAPER

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/570,230	BECHERT ET AL.	
Office Action Summary	Examiner	Art Unit	
	JAKE M. VU	1618	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet wi	th the correspondence address	:
· ·	VIO OET TO EVENE AM	ONTHION OF THEFTY (OO) FO	V0
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 136(a). In no event, however, may a re- will apply and will expire SIX (6) MON' e, cause the application to become AB	CATION.  Poply be timely filed  THS from the mailing date of this communi  ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 12 A	April 2010.		
	s action is non-final.		
3) Since this application is in condition for allowa	nce except for formal matte	ers, prosecution as to the meri	its is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>32-70</u> is/are pending in the application	on.		
4a) Of the above claim(s) <u>51-70</u> is/are withdra			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>32-50</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.		
Application Papers			
9)⊠ The specification is objected to by the Examine	er.		
10) The drawing(s) filed on is/are: a) acc		by the Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct	ction is required if the drawing(	s) is objected to. See 37 CFR 1.1	21(d).
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached	Office Action or form PTO-15	2.
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreigr	n priority under 35 U.S.C. §	119(a)-(d) or (f).	
a)⊠ All b)⊡ Some * c)⊡ None of:			
<ol> <li>☐ Certified copies of the priority documen</li> </ol>			
2. Certified copies of the priority documen			
3. Copies of the certified copies of the price	•	received in this National Stage	Э
application from the International Burea			
* See the attached detailed Office action for a list	t of the certified copies not	received.	
Attachment(s)	,, <b>,</b> ,		
1) Notice of References Cited (PTO-892)		ummary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	rapel Nois	)/Mail Date	

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**DETAILED ACTION** 

Receipt is acknowledged of Applicant's Restriction Requirement Response and

Amendment filed on 04/12/2010; and Information Disclosure Statements filed on

01/12/2010 and 02/28/2006.

Claims 32-70 are pending in the instant application.

Claims 51-70 are withdrawn from consideration.

Election/Restrictions

Applicant's election with traverse of Group I (claims 32-50) and specie elections

of "ointment constituent", "cream", and "infection" in the reply filed on 04/12/2010 is

acknowledged. The traversal is on the ground(s) that independent claims 32 and 51

have each been amended to recite a special feature comprising a porosity of at least

65% which constitutes a contribution over the prior art. This is not found persuasive

because the prior art BERCHET et al teaches a porosity of between 70-90% (see col. 2,

line 34-35).

The requirement is still deemed proper and is therefore made FINAL.

**Priority** 

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which

papers have been placed of record in the file.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 32-45, 47-50 are rejected under 35 U.S.C. 102(b) as being anticipated by BECHERT et al (WO 02/17984; wherein US 6,984,392 is used as a translation).

Applicant's claims are directed to a composition comprising: porous particles containing metallic silver particles, wherein the porous particles have a mean diameter of 2-20 micron, internal porosity of 85-95%; specific gravity of 3.5-4.5 m2/g; sponge-like. Additional limitations include: agglomerates of metallic silver particles, wherein the metallic silver particles have diameter of about 15-80nm; mean distance of outermost primary (metallic silver) particles are about 100-200nm; ointment constituent; composition is a cream.

BECHERT teaches an antimicrobial composition comprised of: porous particles containing metallic silver particles (see col. 2, line 49; col. 4, line 8), wherein the porous particles have a mean diameter of 10-20 micron (see col. 2, line 32-33), internal porosity of 70-95% (see col. 2, line 33-35), which would make it sponge-like; specific gravity of 3-6 m2/g (see col. 2, line 32-33). Additional limitations include: agglomerates (see col. 2, line8-10) of metallic silver particles (see col. 4, line 8-9), wherein the metallic silver particles have diameter of about 10-100nm (see col. 3, line 8-9); can be formed from Ag, Zn, and Cu (see col. 2, line 42-43); mean distance of outermost primary (metallic

silver) particles are about 100-200nm (see Figure 2), wherein the particles are made by the same method as disclosed by Applicant; the silver porous particles are placed in Muller-Hinton agar (see col. 5, line 8-9), in which the agar are made with starch and would read on ointment constituent; the silver porous particles have antimicrobial and are compared with another antimicrobial agent, such as gentamycin (see col. 4, line 65).

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 32-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over BECHERT et al (WO 02/17984; wherein US 6,984,392 is used as a translation) in view of HANKE et al (US 6,720,006)

Applicant's claims are directed to a composition comprising: porous particles containing 99% metallic silver particles, wherein the porous particles have a mean diameter of 2-20 micron, internal porosity of 85-95%; specific gravity of 3.5-4.5 m2/g; sponge-like. Additional limitations include: agglomerates of metallic silver particles, wherein the metallic silver particles have diameter of about 15-80nm; mean distance of outermost primary (metallic silver) particles are about 100-200nm; ointment constituent; composition is a cream.

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As discussed above, BECHERT teaches an antimicrobial composition comprised of: porous particles containing metallic silver particles (see col. 2, line 49; col. 4, line 8), wherein the porous particles have a mean diameter of 10-20 micron (see col. 2, line 32-33), internal porosity of 70-95% (see col. 2, line 33-35), which would make it spongelike; specific gravity of 3-6 m2/g (see col. 2, line 32-33). Additional limitations include: agglomerates (see col. 2, line8-10) of metallic silver particles (see col. 4, line 8-9), wherein the metallic silver particles have diameter of about 10-100nm (see col. 3, line 8-9); can be formed from Ag, Zn, and Cu (see col. 2, line 42-43); mean distance of outermost primary (metallic silver) particles are about 100-200nm (see Figure 2), wherein the particles are made by the same method as disclosed by Applicant; the silver porous particles are placed in Muller-Hinton agar (see col. 5, line 8-9), in which the agar are made with starch and would read on ointment constituent; the silver porous particles have antimicrobial and are compared with another antimicrobial agent, such as gentamycin (see col. 4, line 65). BERCHERT only teaches using the antimicrobial composition in implants and coating on medical devices, such as catheter (see col. 2, line 63-66).

BERCHERT does not teach using the antimicrobial composition in a cream form.

HANKE teaches a composition comprised of: silver particles as an antimicrobial agent (see abstract; and col. 1, line 41-44) in a cream form (see col. 5, line 24-30; col. 6, Example 3). Additional disclosures include: body care products (see col. 10-32); already known as well to use silver in various forms as an antimicrobial agent (see col.

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1, line 41-44), such as cream (see col. 1, line 26) and medical components (see col. 1, line 47) like catheters (see col. 1, line 59).

It would have been obvious to the person of ordinary skill in the art at the time the invention was made to incorporate BERCHERT's silver composition into cream form.

The person of ordinary skill in the art would have been motivated to make those modifications, because the cream form composition would be able to treat skin infection, and reasonably would have expected success because silver particles were know to be in cream form and incorporated into medical components in the prior art.

The references do not specifically teach the exact particle sizes and amount of ingredients as claimed by Applicant. The size and amount of ingredients in a composition is clearly a result effective parameter that a person of ordinary skill in the art would routinely optimize. Optimization of parameters is a routine practice that would be obvious for a person of ordinary skill in the art to employ and reasonably would expect success, such as amount of antibacterial effect. It would have been customary for an artisan of ordinary skill to determine the optimal the size and amount of each ingredient to add in order to best achieve the desired results. Thus, absent some demonstration of unexpected results from the claimed parameters, this optimization of ingredient amount would have been obvious at the time of Applicant's invention.

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Telephonic Inquiries

Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to JAKE M. VU whose telephone number is (571)272-

8148. The examiner can normally be reached on Mon-Tue and Thu-Fri 8:30AM-

5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Hartley can be reached on (571) 272-0616. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jake M. Vu/

Primary Examiner, Art Unit 1618